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1 Behavior based software theft detection

Xinran Wang, Yoon-Chan Jhi, Sencun Zhu, Peng Liu

November 2009 **CCS '09:** Proceedings of the 16th ACM conference on Computer and comm

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Along with the burst of open source projects, software theft (or plagiarism) has become to the healthiness of software industry. Software birthmark, which represents the uniqu program, can be used for software ...

Keywords: dynamic analysis, software birthmark, software plagiarism, software theft

2 Temporal search: detecting hidden malware timebombs with virtual machines

Jedidiah R. Crandall, Gary Wassermann, Daniela A. S. de Oliveira, Zhendong Su, S. Felix W

November 2006 **ASPLOS-XII:** Proceedings of the 12th international conference on Architec programming languages and operating systems

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Worms, viruses, and other malware can be ticking bombs counting down to a specific ti for example, delete files or download new instructions from a public web server. We pr machine-based analysis technique to ...

Keywords: malware, virtual machines, worms

Also published in:

October 2006	**SIGOPS Operating Systems Review**	Volume 40 Issue 5
October 2006	**SIGARCH Computer Architecture News**	Volume 34 Issue 5
November 2006	**SIGPLAN Notices**	Volume 41 Issue 11

3 AWE: improving software analysis through modular integration of static and dynam

Ruben E. Brown, Roger Khazan, Michael Zhivich

June 2007 **PASTE '07:** Proceedings of the 7th ACM SIGPLAN-SIGSOFT workshop on Prog software tools and engineering

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AWE is a prototype system for performing analysis of x86 executables in the absence o debugging information. It provides a modular infrastructure for integrating static and d single workflow. One of the major challenges ...

Keywords: dynamic analysis, malicious software analysis, static analysis

4 JavaScript instrumentation for browser security

Dachuan Yu, Ajay Chander, Nayeem Islam, Igor Serikov

January 2007 **POPL '07:** Proceedings of the 34th annual ACM SIGPLAN-SIGACT symposiun programming languages

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It is well recognized that JavaScript can be exploited to launch browser-based security battle such attacks using program instrumentation. Untrusted JavaScript code goes thr which identifies relevant operations, ...

Keywords: JavaScript, edit automata, program instrumentation, web browser

Also published in:
January 2007 **SIGPLAN Notices** Volume 42 Issue 1

5 A qualitative assessment of the efficacy of UML diagrams as a form of graphical dc program understanding

Scott Tilley, Shihong Huang

October 2003 **SIGDOC '03:** Proceedings of the 21st annual international conference on Do

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Full text available: Pdf (274.99 KB) Additional Information: full citation, abstract, references, citec

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 104, Downloads (Overall): 18:

Graphical documentation is often characterized as an effective aid in program understa open question exactly which types of graphical documentation are most suitable for wh understanding tasks (and in which ...

Keywords: Unified Modeling Language (UML), assessment, graphical documentation, p

6 Learning to Detect and Classify Malicious Executables in the Wild

J. Zico Kolter, Marcus A. Maloof

December 2006 **The Journal of Machine Learning Research** , Volume 7

Publisher: MIT Press

Full text available: Pdf (242.79 KB) Additional Information: full citation, abstract, references, citec

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 122, Downloads (Overall): 39:

We describe the use of machine learning and data mining to detect and classify malicio appear in the wild. We gathered 1,971 benign and 1,651 malicious executables and enc example using *n*-grams of byte ...

7 Feature selection and policy optimization for distributed instruction placement using learning

Katherine E. Coons, Behnam Robatmili, Matthew E. Taylor, Bertrand A. Maher, Doug Burge
October 2008 **PACT '08:** Proceedings of the 17th international conference on Parallel archi techniques

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Communication overheads are one of the fundamental challenges in a multiprocessor s processors on a chip increases, communication overheads and the distribution of compi increasingly important performance ...

Keywords: compiler heuristics, genetic algorithms, instruction scheduling, machine lea

8 Passive network forensics: behavioural classification of network hosts based on co

John McHugh, Ron McLeod, Vaqishwari Nagaonkar
April 2008 **SIGOPS Operating Systems Review** , Volume 42 Issue 3
Publisher: ACM
Full text available: Pdf (2.40 MB) Additional Information: full citation, abstract, references, inde

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 197, Downloads (Overall): 3

Passive monitoring of the data entering and leaving an enterprise network can support objectives. We have developed analysis techniques for NetFlow data that use behaviou confirm individual host roles and ...

Keywords: behaviour, forensic, intrusion detection, intrusion prevention, network, on- peer, propagation prevention, security, traffic, virus, worm